

## ETHYLENE TRIMERIZATION CATALYST AND ETHYLENE TRIMERIZATION USING THE SAME

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### Abstract of JP2001002724

**PROBLEM TO BE SOLVED:** To obtain the subject catalyst capable of efficiently producing in high selectivity 1-hexene useful as a raw material comonomer for linear low-density polyethylenes, from ethylene by including a specific chromium complex, an alkylmetallic compound and a specific amine compound.

**SOLUTION:** This catalyst is obtained by including the following at least three components: (A) a chromium complex coordinated with a neutral multidentate ligand, (B) an alkylmetallic compound and (C) an aromatic t-amine compound (except imine) and/or nitrogen-contg. heterocyclic compound, wherein it is preferable that the component A is a complex represented by the formula:  $ACrB_n$  (A is a neutral multidentate ligand; n is 1-3; B is H, a 1-10C alkyl, a carboxylate, or the like), a chromium complex with the multidentate ligand having tripod-type structure and coordinated facially, esp. tris(3,5-dimethylpyrazolyl)methane.

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